

ABSTRACT

In accordance with a vehicle motion control apparatus, a steering angle (θ_h) of a steering wheel is determined on the basis of a rotation angle (θ_{pm}) of an assist motor (24m) detected by a rotation angle sensor (24s) and a rotation angle (θ_{vm}) of a gear ratio variable motor (32m) detected by a rotation angle sensor (32s), and a VGRS control process (40a) of a gear ratio variable mechanism is executed on the basis of the determined steering angle (θ_h). Accordingly, since the steering angle (θ_h) of the steering wheel is determined on the basis of the rotation angle (θ_{vm}) used for the VGRS control process (40a) of the gear ratio variable mechanism and the rotation angle (θ_{pm}) used for an EPS control process (30a) of an EPS actuator, it is possible to obtain the steering angle (θ_h) of the steering wheel without a steering angle sensor. Therefore, it is possible to reduce the number of the parts of a vehicle motion control apparatus.